EXPERIMENT STATION IN NORTH POLE SHADOW

Short-Summer Crops Necessary to Develop Alaska Are Tested.

TN YUKON-TANANA DISTRICT

Uncle Sam Has Been Able to Mature in One Season More Than Fifty Varieties of Grains-Millions of glas Acres Available-Season Is Brief.

BY FRANK G. CARPENTER.

RAMPART, ALASKA—I want to show you how Uncle Sam is tilling the boil under the shadow of the north boil. The oid patriarch has established an experiment farm here on the lished and experiment farm here on the lished and ex RAMPART, ALASKA -- t want to crops velop Alaska. He is raising barley menting with wheat, hardy clover and even alfalfa. He has ransacked w in Northern China, on the deser of Gobl and on the highlands of the Pamir, looking for seeds. He is getling samples of grains from Abyssinia and the Atlas Mountains in Africa, and has no end of plants now growing here that have come from Finland and Norsvay, as well as from the northernmost part of the United States and Canada As it is, he has been able to mature one season more than fifty varieties of different grains, and these include nd wheat, and also winter rye and winter wheat. He is raising potatoes. cabbages and other vegetables, and has begun to experiment with strawproduced a handful this year.

But let me show you where Rampart is on the earth, and how its confitions compare with those of other will take your map of Alaska, you will fand my It is about one-third of the face,

just about one-fourth the size of him along through the furrows. According to the figures of FIELD OF POTATOES 000 acres under cultivation, comprising 271,000 farms. Its annual crops toes covering like 20,000,000 bushels of oats, 12,000,000 bushels of rye, 5,000,000 bushels of to the height of my knees. Each row harly and 19,000,000 bushels of potatees. It produces 7,000,000 or 8,000,000 known are the that new varieties are tried every year. The six best now known are Extra Early Eureka. Propounds of flax and hemp. That country has now more than 1,000,000 cows.

The potatoes are often stated in like 20,000,000 hushels of oats, 12,000,try has now more than 1,000,000 cows, and it ships 28,000,000 pounds of butter a year. It has more than 200,00 four weeks before planting they are than 3,000,000, and of these 85 per cent a half inch to three inches. The live on the farm.

in the same latitude as the valley of double the growth and yield of potatos duces millions of bushels of oats, and of each kind. The has hundreds of thousands of horses, a yield of 250 poun

MILLIONS OF ACRES OF AVAILABLE FARMING LANDS SEIGHBORS

The agricultural experts from whose might that their lowest estimate of the available farming lands in the Yukone. Tanana region is 1,000,000 a res and

kon I have seen small batcher of cul-tivated land. Every log cabin has its gerder and nearly every miner his patch of potatoes. Just outside Eagle have you call and inspect same. He of oats which is now in head. It will be cut for eats-hay and will have a ton. The owner is John B Powers, the deputy United States marshal. He has a farm hear Hagle, where he has forty acres in oats, from which he will cut this year seventy-five tons of oats-hay. Mr. Fowers keeps fifteen head of horses, and he runs pack trains from Eagle into the mining districts that he fifty or sixt; miles back from Yukon He tells me that good draught horses are worth \$1,000 a pair, and that pack mules bring \$300 each

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slope gently up from the river, and the that there were on the average about more of the farmer, Mr. G. W. Gasser, minety-five days between the late a pretty operators with a spring and early fall fronts. Son fronts are the complete of th slope gently up from the river, and the home of the farmer, Mr. G. W. Gasser, is a pretty one-story cottage with a glass porch at the front. Below the house is a sloping garden, and behind it and it the right and left are something forty acres of experiment crops.

That there were on the average about minety-five days between "the late spring and early fall frosts, Such frosts affect potatoes and buckwheat, but do not injure the hardier grains. As to winter, the thermometer occasionally ground thaws deeper and deeper."

I asked Mr. Gasser if he thought farming could be carried on successfully and their right and left are something forty acres of experiment crops. is the cold of the summer only that may be raised for export. Our pota



boundary, about half way between Fairbanks and the Arctic Circle, and is in the heart of the Yukon-Tanana agree in height. The stalks were ricultural district, the lower part of which will be thrown open by Uncle Sam's new railroad, now building to Fairbanks. That part is in the lower parts of the Yukon-Tanana agree in height. The stalks were will headed with Mr. Sam's new railroad, now building to Fairbanks. That part is in the lower parts of the Neight with Mr. Sam's new railroad, now building to Fairbanks. That part is in the lower parts of the Neight with Mr. Sam's new railroad, now building to Fairbanks. That part is in the lower parts of the Neight with Mr. Sam's new railroad, now building to Fairbanks. That part is in the lower parts of the Neight will will make the opening up of the country one-afth as targe as the whole United States.

RESIDENT POPULATION SEEMS TO BE NEEDED building to the crops now growing. They come from all parts of the world, I was especially interested in the various kinds of alfalfa. Mr. Gasser has now in the ground a yellow-flower daily in the ground a yellow-flower dailer the crops now growing. They come from all parts of the world, I was especially interested in the various kinds of alfalfa. Mr. Gasser has now in the ground a yellow-flower daily in the ground a yellow-flower daily will warrant a resident population. Siberia, It grows wild there, and it the opening up of the country by the province of the whole with the crops now growing. They come from all parts of the world, I was especially interested in the various kinds of alfalfa. Mr. Gasser has now in the ground a yellow-flower daily in the crops now growing. They come from all parts of the world, I was especially interested in the various kinds of alfalfa. Mr. Gasser has now in the crops now growing. They come from all parts of the world, I was especially interested in the various kinds of alfalfa. Mr. Gasser has now in the crops now growing. lands of the Tanana Valley. This is Pairbanks, of the Northern Commer-

oats, and exporting live stock and but- second season. Beyond these fields we

COVERING FIVE ACRES ture. Our next sight was a field of pota-oes covering five or six acres. They

horses, 200,000 hogs and more than put in trays, slightly covered with soil 200,000 sheep. Its population is more Sprouts come out to the length of from in the same latitude as the valley of double the growth and yield of the Yukon. Among these is the culti- planted in the ordinary way. An exvated valley of the Amur, that proper ment was made with sixty-five bills and of each kind. The sprouted bills had has hundreds of thousands cattle and hogs. The mean summer sprouted ones proceed temperature there is about 65 or 65 by being placed in the att warm reem. I would suggest

D. PERLIN LADIES' TAILOR

Tanana sottoms and ladies in country.

At the stops on m. way down the Yu. opened his fall and winter season. and ladies in general that he has I photographed a field of sixteen acres is offering special prices for orders

and much I doubt not the glacial a great deal of cross-breeding and pro-ice exists within two feet of its sur- duces new grains and new plants, and

Take, for instance, Finland, which is ploy and two big draft-horses dragged into one-fourth the size of him along through the furtows.

OF FAR-NORTH FARMING way, Sweden and Finland do not take into consideration the enormous population one-fourth the size of him along through the furtows.

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reasonable prices.

TAKES THE PLACE OF

this season.

And here the farmer pointed to a half

cluding the Indians, less than

the rolling hills that border the cal Company, and had a photograph made to show you its height 1 am Yukon.

The latitude of Rampart is just about the globe on that line it would pass through pairts of via, cutting large regions which are producing quantities of tye, larley and coats, and exporting live stock and but-coats, and exporting live stock and but-coats, and exporting live stock and but-coats, and exporting live stock and but-coats.

The latitude of Rampart is just about two feet in height and they have bright yellow flowers. They differ from the common alfalfa in that they have bright yellow flowers. They differ from the common alfalfa in that they have smaller leaves and their stems are more slender and more diffuse. This was natchy, and the stems are more slender and more diffuse. This was natchy, and the stems are more slender and more diffuse. This was natchy, and the common alfalfa in that they have bright yellow flowers. They differ from the common alfalfa in that they have smaller leaves and their stems are more slender and more diffuse. This was natchy, and the stems are more slender and more diffuse. This was patchy, and the common alfalfa in that they have smaller leaves and their stems are more slender and more diffuse. This was patchy, and the stems are more slender and more diffuse. This station. Mr. Gasser is now crossling it with the cirium alfalfa, which is almost as hardy.

ONE OF THE TRUBBLES

there are no indigenous legumes in the country of sufficient value for culture. The land needs such plants for exportation. It has thousands who are typically and also to fertilize the soil

Rasmussen, who keeps seven horses for draying and hiring. His charge for a saddle horse is \$7 per day. It would cost him \$120 a ton to bring in hay from outside, and he has a farm which produces all the feed he needs. I have already described agricultural conditions farther up the Yukon near Dawson. I am told that the same sort of the Warm weather son. I am told that the same sort of the same sort of the Baltie, a question of raising enough seed to meet the demand. Alfalfa is not cultivated so far north as this anywhere else upon earth.

As we looked at the alfalfa, I asked Mr. Gasser whether the soil was deep enough for the crop. In the United States our alfalfa roots sometimes go down many feet. Here they would be stopped by the glacial ice-bed, of Alaska are supplied from cans. Conalready described agricultural conditions farther up the Yukon near Dawison. I am told that the same sort of farming goes on near the towns all the way to the mouth of the river. The government experiment station is just across the river from Rampart. The farm lies on rolling grounds that the same set of farming goes on near the towns all table to occur as late as June I, and there are killing frosts as early as the first week in September. Mr. Gassil so was the river from Rampart. The farm lies on rolling grounds that slope gently up from the river, and the state of Alaska are supplied from cans. Condensed milk and condensed cream and condensed milk set better than that from the cow. Industry here, except for the local markets of Alaska are supplied from cans. Condensed milk and condensed cream and condensed milk better than that from the cow. Industry here, except for the local markets of Alaska are supplied from cans. Condensed milk and condensed cream and condensed milk better than that from the cow. Industry here, except for the local markets of Alaska are supplied from cans. Condensed milk and condensed cream and condensed milk and condensed milk better than that from the cow. Industry here, except for the local markets of Alaska are supplied from cans. Condensed milk and condensed cream and condensed milk better than that from the cow. The farm lies on rolling grounds that there were on the average about shows that there were on the average about the stopped by the glacial ice-bed, which is less than a yard from the surface.

"They stop at the ice," was the reply "and the ends of the roots freeze off. However, the roots spread out also stopped by the glacial ice-bed, which is less than a yard from the cow. They stop at the ice," was the reply "and the ends of the roots freeze off. However, the roots spread out also stopped by the glacial ice-bed, which is less than a yard from the cow. They stopped by the glacial ice-bed, which is less than a yard from the cow. They stopped by the glacial ice-bed, which quired the canned cream and canned fruit taste say they intend to stick to it in preference to the real article. They make me think of the newsboy who, during his fresh at restaurable to the custom of the country, had three straight blue who, during his fresh-air week in the country, refused to eat the new-lad lieach had bought some fish of the eggs. When asked why, he replied:
"I don't like 'em. They ain't got no taste, and there ain't no smell."

After leaving the experimental farm

They tateed in me on her cann. He squaw, and wanted to find her to get another supply. He was asked to describe her. He said:
"I don't know her name, but she

After leaving the experimental farm our steamer crossed the river to Ram-carried her head in the air. She is This is another of the abandoned short and dirty, and has her house of the Yukon. It was once a log-number marked on her chin. It is cabin metropolis, having 2,000 inhabitants and being one of the chief gold-mining centers. Then the placer de-posits played out, the crowd rushed to the Klondike and later to Fairbanks. To-day the place is practically deserted. Many of its log houses have been There were they are abandoned and empty.

I am told that Rex Beach came her to mine gold. He failed to find th precious metal, but he unearthed the loge of human-interest stories us all. The history of his stay

FRANK G. CARPENTERS

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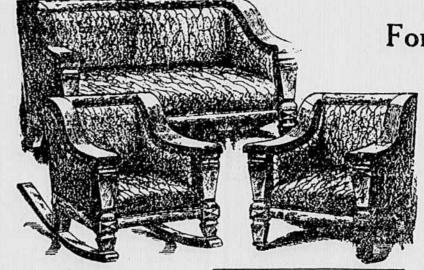
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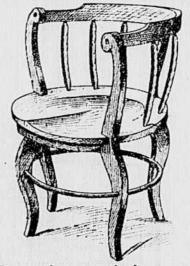
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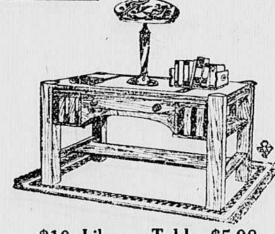
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knocked out," if your liver is torpid and bowels

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